



Tennessee Valley Authority, 535 Steam Plant Road, New Johnsonville, TN 37134

April 12, 2012

Mrs. Dana Waits  
Tennessee Dept. of Environmental & Conservation  
Division of Water Pollution Control  
Compliance Review Section  
6<sup>th</sup> Floor , L & C Annex  
401 Church Street  
Nashville, Tennessee 37243-1534

Dear Mrs. Waits:

TENNESSEE VALLEY AUTHORITY (TVA) - JOHNSONVILLE FOSSIL PLANT (JOF) -  
NPDES PERMIT NO. TN0005444 DISCHARGE MONITORING REPORT (DMR) -  
3/1/12 - 3/31/12

As required by subject permit, enclosed are two copies of the DMR for the reporting period 3/01/12 - 3/31/12, two copies of the intake analysis reports for the same period, and the first quarter DMR. Also included are two copies of the 2012 Ash Pond Closure Plan and the Closure Schedule for the first quarter of 2012.

Should you have any questions concerning this report, please contact Becky Seaton at (931)535-8290 or Tony Dillon at (931)535-8206.

Very truly yours,

A handwritten signature in black ink, appearing to read "Clay C. Cherry".

Clay C. Cherry  
Plant Manager  
Johnsonville Fossil Plant

KKD:SAM

Enclosures: Travis Markum, LP 5D-C  
Cynthia Anderson, LP 2V-C  
Chanda Smith, MCT 1A-CCK  
JOF Environmental Department

CERTIFIED MAIL - 7011 0110 0000 0596 5084  
RETURN RECEIPT REQUESTED

PERMITTEE NAME/ADDRESS (include Facility Name/location if Different)

Name: **TVA - JOHNSONVILLE FOSSIL**  
Address: **PLANT MANAGER**  
**535 STEAM PLANT ROAD**  
**NEW JOHNSONVILLE TN 37134**  
Facility: **TVA - JOHNSONVILLE FOSSIL**  
Location: **HUMPHREYS CO (NEAC)**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)  
(2-16)  
TN0005444  
PERMIT NUMBER  
001 G  
DISCHARGE NUMBER

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

Attn: Clay Cherry

MONITORING PERIOD  
From 12 03 01 To 12 03 31  
YEAR MO DAY YEAR MO DAY

MAJOR (SUBR 04)  
F - FINAL  
DISCHARGE TO TN RIVER MI 100.2  
EFFLUENT  
\*\*\* NO DISCHARGE \*\*\*  
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (48-53)			UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)							
		AVERAGE (48-53)	MAXIMUM (54-61)	MINIMUM (58-65)		AVERAGE (48-53)	MAXIMUM (54-61)	MINIMUM (58-65)											
PH	SAMPLE MEASUREMENT	*****	*****	7.1	**	*****	*****	7.9	12	0	5 / 31	GRAB							
00400 1 0 0	PERMIT REQUIREMENT	*****	*****	6.0	****	*****	*****	9.0	SU		WEEKLY	GRAB							
EFFLUENT GROSS VALUE		*****	*****	MINIMUM	**	*****	*****	MAXIMUM	19	0	1 / 31	GRAB							
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	**	*****	*****	*****	19	0	1 / 31	GRAB							
00530 1 0 0	SAMPLE MEASUREMENT	*****	*****	*****	****	*****	*****	*****	MGL		ONCE / MONTH	GRAB							
EFFLUENT GROSS VALUE		*****	*****	*****	**	*****	*****	*****	19	0	1 / 31	GRAB							
OIL AND GREASE		*****	*****	*****	**	*****	*****	*****	19	0	1 / 31	GRAB							
00556 1 0 0	PERMIT MEASUREMENT	*****	*****	*****	****	*****	*****	*****	MGL		ONCE / MONTH	GRAB							
EFFLUENT GROSS VALUE		*****	*****	*****	****	*****	*****	*****	MGL		ONCE / MONTH	GRAB							
NITROGEN, AMMONIA TOTAL (AS N)		<10	11	*****	26	*****	*****	*****	19	0	2 / 31	GRAB							
00610 2 0 0	SAMPLE MEASUREMENT	*****	*****	*****	LB/D	*****	*****	*****	MGL		Twice / Month	GRAB							
EFFLUENT NET		*****	*****	*****	**	*****	*****	*****	19	0	2 / 31	GRAB							
CYANIDE, TOTAL (AS CN)		*****	*****	*****	**	*****	*****	*****	19	0	2 / 31	GRAB							
00720 1 0 0	SAMPLE MEASUREMENT	*****	*****	*****	***	*****	*****	*****	MGL		ONCE / MONTH	GRAB							
EFFLUENT GROSS VALUE		*****	*****	*****	***	*****	*****	*****	MGL		ONCE / MONTH	GRAB							
ARSENIC, TOTAL (AS AS)		*****	*****	*****	**	*****	*****	*****	19	0	1 / 31	GRAB							
01002 1 0 0	SAMPLE MEASUREMENT	*****	*****	*****	***	*****	*****	*****	MGL		ONCE / MONTH	GRAB							
EFFLUENT GROSS VALUE		*****	*****	*****	***	*****	*****	*****	MGL		ONCE / MONTH	GRAB							
CADMIUM, TOTAL (AS CD)		*****	*****	*****	**	*****	*****	*****	19	0	1 / 31	GRAB							
01027 1 0 0	SAMPLE MEASUREMENT	*****	*****	*****	****	*****	*****	*****	MGL		ONCE / MONTH	GRAB							
EFFLUENT GROSS VALUE		*****	*****	*****	****	*****	*****	*****	MGL		ONCE / MONTH	GRAB							
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER												TELEPHONE		DATE					
Dennis R. Spencer												931 535-8212		12 04 12					
Senior V.P., Fossil Power Group												AREA CODE NUMBER		YEAR MO DAY					
TYPED OR PRINTED												931 535-8212		12 04 12					
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)												SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					Clay Cherry, Plant Mgr		

Name **TVA - JOHNSONVILLE FOSSIL**

Address **PLANT MANAGER**

**535 STEAM PLANT ROAD**

**NEW JOHNSONVILLE TN 37134**

Facility **TVA - JOHNSONVILLE FOSSIL**

Location **HUMPHREYS CO (NEAC)**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

MAJOR (SUBR 04)  
F - FINAL  
DISCHARGE TO TN RIVER MI 100.2

Form Approved  
OMB No. 2040-0004  
Approval expires 05-31-98

Attn: Clay Cherry

From **12 03 01** To **12 03 31**

MONITORING PERIOD

PERMIT NUMBER **TN0005444** DISCHARGE NUMBER **001 G**

\*\*\* NO DISCHARGE \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (46-53)		UNITS	QUALITY OR CONCENTRATION (38-45)		MAXIMUM (54-61)	UNITS	NO. OF ANALYSIS (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM		MINIMUM	AVERAGE					
<b>COPPER, TOTAL (AS CU)</b>	<b>SAMPLE MEASUREMENT</b>	*****	*****	**	*****	*****	0.0020	19	0	1 / 31	GRAB
<b>01042 1 0 0</b>	<b>PERMIT REQUIREMENT</b>	*****	*****	****	*****	*****	Req. Mon. DAILY MX	MGL	0	ONCE / MONTH	GRAB
<b>IRON, TOTAL (AS FE)</b>	<b>SAMPLE MEASUREMENT</b>	*****	*****	**	*****	*****	0.13	19	0	1 / 31	GRAB
<b>01045 1 0 0</b>	<b>PERMIT REQUIREMENT</b>	*****	*****	****	*****	*****	Req. Mon. DAILY MX	MGL	0	ONCE / MONTH	GRAB
<b>LEAD, TOTAL (AS PB)</b>	<b>SAMPLE MEASUREMENT</b>	*****	*****	**	*****	*****	<0.0010	19	0	1 / 31	GRAB
<b>01051 1 0 0</b>	<b>PERMIT REQUIREMENT</b>	*****	*****	****	*****	*****	Req. Mon. DAILY MX	MGL	0	ONCE / MONTH	GRAB
<b>THALLIUM, TOTAL (AS TL)</b>	<b>SAMPLE MEASUREMENT</b>	*****	*****	**	*****	*****	<0.0010	19	0	1 / 31	GRAB
<b>01059 1 0 0</b>	<b>PERMIT REQUIREMENT</b>	*****	*****	****	*****	*****	Req. Mon. DAILY MX	MGL	0	ONCE / MONTH	GRAB
<b>SILVER, TOTAL (AS AG)</b>	<b>SAMPLE MEASUREMENT</b>	*****	*****	**	*****	*****	<0.00050	19	0	1 / 31	GRAB
<b>01077 1 0 0</b>	<b>PERMIT REQUIREMENT</b>	*****	*****	****	*****	*****	Req. Mon. DAILY MX	MGL	0	ONCE / MONTH	GRAB
<b>ZINC, TOTAL (AS ZN)</b>	<b>SAMPLE MEASUREMENT</b>	*****	*****	**	*****	*****	<0.010	19	0	1 / 31	GRAB
<b>01092 1 0 0</b>	<b>PERMIT REQUIREMENT</b>	*****	*****	****	*****	*****	Req. Mon. DAILY MX	MGL	0	ONCE / MONTH	GRAB
<b>ANTIMONY, TOTAL (AS SB)</b>	<b>SAMPLE MEASUREMENT</b>	*****	*****	**	*****	*****	<0.0010	19	0	1 / 31	GRAB
<b>01097 1 0 0</b>	<b>PERMIT REQUIREMENT</b>	*****	*****	****	*****	*****	Req. Mon. DAILY MX	MGL	0	ONCE / MONTH	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Dennis R. Spencer

Senior V.P., Fossil Power Group

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Clay Cherry, Plant Mgr

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

931 535-8212 12 04 12

AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

Name **TVA - JOHNSONVILLE FOSSIL**

Address **PLANT MANAGER**

**535 STEAM PLANT ROAD**

**NEW JOHNSONVILLE TN 37134**

Facility **TVA - JOHNSONVILLE FOSSIL**

Location **HUMPHREYS CO (NEAC)**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)  
(2-16)  
PERMIT NUMBER **TN0005444**  
DISCHARGE NUMBER **001 G**

MAJOR  
(SUBR 04)  
F - FINAL  
DISCHARGE TO TN RIVER MI 100.2

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

Attn: Clay Cherry

MONITORING PERIOD  
YEAR MO DAY  
From **12 03 01** To **12 03 31**

EFFLUENT  
\*\*\* NO DISCHARGE \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER

(3 Card Only)

QUANTITY OR LOADING

(46-53)

(54-61)

UNITS

MINIMUM

AVERAGE

MAXIMUM

NO. OF ANALYSIS

SAMPLE TYPE

AVERAGE

MAXIMUM

UNITS

MINIMUM

AVERAGE

MAXIMUM

UNITS

NO. OF ANALYSIS

SAMPLE TYPE

ALUMINUM, TOTAL (AS AL)

MEASUREMENT

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0.31

19

0

1 / 31

GRAB

01105 1 0 0

PERMIT REQUIREMENT

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Req. Mon. DAILY MX

MGL

0

1 / 31

GRAB

SELENIUM, TOTAL (AS SE)

MEASUREMENT

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0.0110

19

0

1 / 31

GRAB

01147

REQUIREMENT

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Req. Mon. DAILY MX

MGL

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1 / 31

GRAB

FLOW, IN CONDUIT OR THRU TREATMENT PLANT

MEASUREMENT

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23.6

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50050 1 0 0

PERMIT REQUIREMENT

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MERCURY, TOTAL (AS HG)

MEASUREMENT

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1 / 31

GRAB

71900 1 0 0

PERMIT REQUIREMENT

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EFFLUENT GROSS VALUE

MEASUREMENT

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NICKEL, TOTAL

MEASUREMENT

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01067 1 0 0

PERMIT REQUIREMENT

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EFFLUENT GROSS VALUE

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Dennis R. Spencer

Senior V.P., Fossil Power Group

TYPED OR PRINTED

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TELEPHONE

DATE

931

535-8212

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

18 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Clay Cherry, Plant Mgr

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Address

PLANT MANAGER

DISCHARGE NUMBER

NO. OF ANALYSIS

Approval expires 05-31-98

Facility

TIN005444

003 T

DIS-KY RES AT TN RIV MI 99.4

Attn: Clay Cherry

MONITORING PERIOD  
From: 12 03 01 To: 12 03 31

EFFLUENT  
\*\*\* NO DISCHARGE \*\*\*

PARAMETER

(3 Card Only) QUANTITY OR LOADING

(4 Card Only) QUALITY OR CONCENTRATION

NOTE: Read instructions before completing this form.

(32-37)

(48-53) AVERAGE

(54-59) MAXIMUM

(60-65) UNITS

(66-71) MINIMUM

(72-77) AVERAGE

(78-83) MAXIMUM

(84-89) EX

(90-95) SAMPLE TYPE

IC25 STARE 7DAY CHR

SAMPLE MEASUREMENT

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Monitoring

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PERCENT

TRP6C 1 0 0

PERMIT REQUIREMENT

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Monitoring

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PERCENT

IC25 STARE 7DAY CHR

SAMPLE MEASUREMENT

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Monitoring

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23

PERCENT

TRP3B 1 0 0

PERMIT REQUIREMENT

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Monitoring

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23.8

PERCENT

EFFLUENT GROSS VALUE

PERMIT REQUIREMENT

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Monitoring

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PERCENT

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

MAJOR

Form Approved

Approval expires 05-31-98

NAME: **PLANT MANAGER**  
 ADDRESS: **535 STEAM PLANT ROAD**  
 CITY: **TVA - JOHNSONVILLE FOSSIL**  
 STATE: **MISSISSIPPI**  
 ZIP: **39201**

Att: Clay Cherry

(2-15) **TN0005444**  
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Address PLANT MANAGER

535 STEAM ROAD

City TVA-JOHNSONVILLE FOSSIL

State MISSISSIPPI

Attn: Clay Cherry

TN0005444

011 T

F - FINAL

DISCHARGE TO IN RIVER MILE 100.4

EFFLUENT

From: 12 03 01 To: 12 03 31

\*\*\* NO DISCHARGE [XX] \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER

(32-37)

LC50 STAT 48HR ACU CERIODAPHRINA

TAA3B 1 0 0

EFFLUENT GROSS VALUE

LC50 STAT 48 HR ACU PIMEPHALES

TAA6C 1 0 0

EFFLUENT GROSS VALUE

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			PERIOD			QUALITY OR CONCENTRATION			NO. OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	ANALYSIS		
LC50 STAT 48HR ACU CERIODAPHRINA	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23				
TAA3B 1 0 0	PERMIT REQUIREMENT	*****	*****	***		*****	*****	PERCENT				ANNUAL GRAB
LC50 STAT 48 HR ACU PIMEPHALES	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23				
TAA6C 1 0 0	PERMIT REQUIREMENT	*****	*****	****		*****	*****	PERCENT				ANNUAL GRAB
	SAMPLE MEASUREMENT											
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Dennis R. Spencer

Senior V.P., Fossil Power Group

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Clay Cherry, Plant Mgr

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

931

535-8212

12

04

12

AREA CODE

NUMBER

YEAR

MO

DAY

No Discharge this Period

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



PLANT MANAGER  
535 STEAM PLANT ROAD  
TVA - JOHNSONVILLE FOSSIL  
CLAY CHERRY

PLANT NUMBER: TNU05444  
DISCHARGE NUMBER: 017 Q  
F - FINAL  
NON CONTACT COOLING WATER  
EFFLUENT

NOTE: Read instructions before completing this form.

PARAMETER (32-37)

PH

00400 1 0 0

EFFLUENT GROSS VALUE

FLOW, IN CONDUIT OR THRU

TREATMENT PLANT

50050 1 0 0

EFFLUENT GROSS VALUE

TEMPERATURE, WATER DEG.

CENTIGRADE

00010 1 0 0

EFFLUENT GROSS VALUE

FROM: 12 01 01 TO: 12 03 31

QUANTITY OR LOADING (32-37)

AVERAGE (46-53)

MAXIMUM (54-61)

UNITS (38-45)

MINIMUM (38-45)

AVERAGE (46-53)

MAXIMUM (54-61)

UNITS (38-45)

MINIMUM (38-45)

AVERAGE (46-53)

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MINIMUM (38-45)

AVERAGE (46-53)

MAXIMUM (54-61)

UNITS (38-45)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
Dennis R. Spencer  
Senior V.P., Fossil Power Group  
TYPED OR PRINTED

CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
Clay Cherry, Plant Mgr  
931 535-8212 12 04 12  
AREA CODE NUMBER YEAR MO DAY

## FINAL MODIFYING WATER EFFECT

**NOTE: Read instructions before completing this form**

PARAMETER (22-27)	METHOD (28-31)	QUANTITY OR LOADING (32-37)	QUALITY OR CONCENTRATION (38-43)			NO. OF ANALYSIS (64-69)	FREQUENCY OF SAMPLE TYPE (69-70)
			AVERAGE (44-45)	MAXIMUM (46-47)	UNITS (48-49)		
HARDNESS, TOTAL (AS CACOS)		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
00900 1 0 0		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
SOLIDS, TOTAL SUSPENDED		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
00530 1 0 0		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
ANTIMONY, TOTAL (AS SB)		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
01097 1 0 0		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
ARSENIC, TOTAL (AS AS)		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
01002 1 0 0		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
CADMIUM, TOTAL (AS CD)		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
01027 1 0 0		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
CHROMIUM, TOTAL (AS CR)		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
01034 1 0 0		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
COPPER, TOTAL (AS CU)		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	
01042 1 0 0		SAMPLE MEASUREMENT	*****	*****	19	0	1 / 31
		PERMIT REQUIREMENT	*****	*****	MG/L	REPORT	

WIC





[illegible]

Attn: Clay County

**CERTIFICATE**

(Carb Only) QUANTITY FOR LOADING  
(45-52) (54-61)

(404-600-3)  
(38-15)  
QUALITY OF  
(45-53)

CONCENTRATION (54-51)	NO. OF EX	FREQUENCY ANALYSIS
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NOTE: Read instructions before completing this form.

PARAMETER (22-37)		QUALITY OR CONCENTRATION (52-53)		NO. EX. ANALYSIS (62-63)		FREQUENCY OF ANALYSIS (64-69)		SAMPLE TYPE (69-70)	
		AVERAGE (53-53)	MAXIMUM (54-54)	MINIMUM (55-55)	AVERAGE (56-56)	MAXIMUM (57-57)	UNITS (58-58)	UNITS (59-59)	TYPE (60-60)
ZINC, TOTAL (AS ZN)		MEASUREMENT	19			<0.010	19	0	1 / 31
01092 1 0 0		PERMIT REQUIREMENT	*****	*****	*****	REPORT	MG/L		
EFFLUENT GROSS VALUE		SAMPLE MEASUREMENT	19			<0.0050	19	0	1 / 31
00720 1 0 0		PERMIT REQUIREMENT	*****	*****	*****	REPORT	MG/L		
EFFLUENT GROSS VALUE		SAMPLE MEASUREMENT	19			0.36	19	0	1 / 31
ALUMINUM, TOTAL (AS AL)		PERMIT REQUIREMENT	*****	*****	*****	REPORT	MG/L		
01105 1 0 0		PERMIT REQUIREMENT	*****	*****	*****	REPORT	MG/L		
EFFLUENT GROSS VALUE		SAMPLE MEASUREMENT							
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NAME/TITLE	PRINCIPAL EXECUTIVE OFFICER	DATE
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY		TELEPHONE
		DATE

Dennis R. Spencer

Senior V.P., Fossil Power Group

TYPED OR PRINTED

CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. §1001 AND 33 U.S.C. §1313. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment between 6 months and 5 years.)

Clay Cherry, Plant Mgr

  
Clay Cherry, Plant Mgr

TELEPHONE

DATE \_\_\_\_\_

331

535-8212 12

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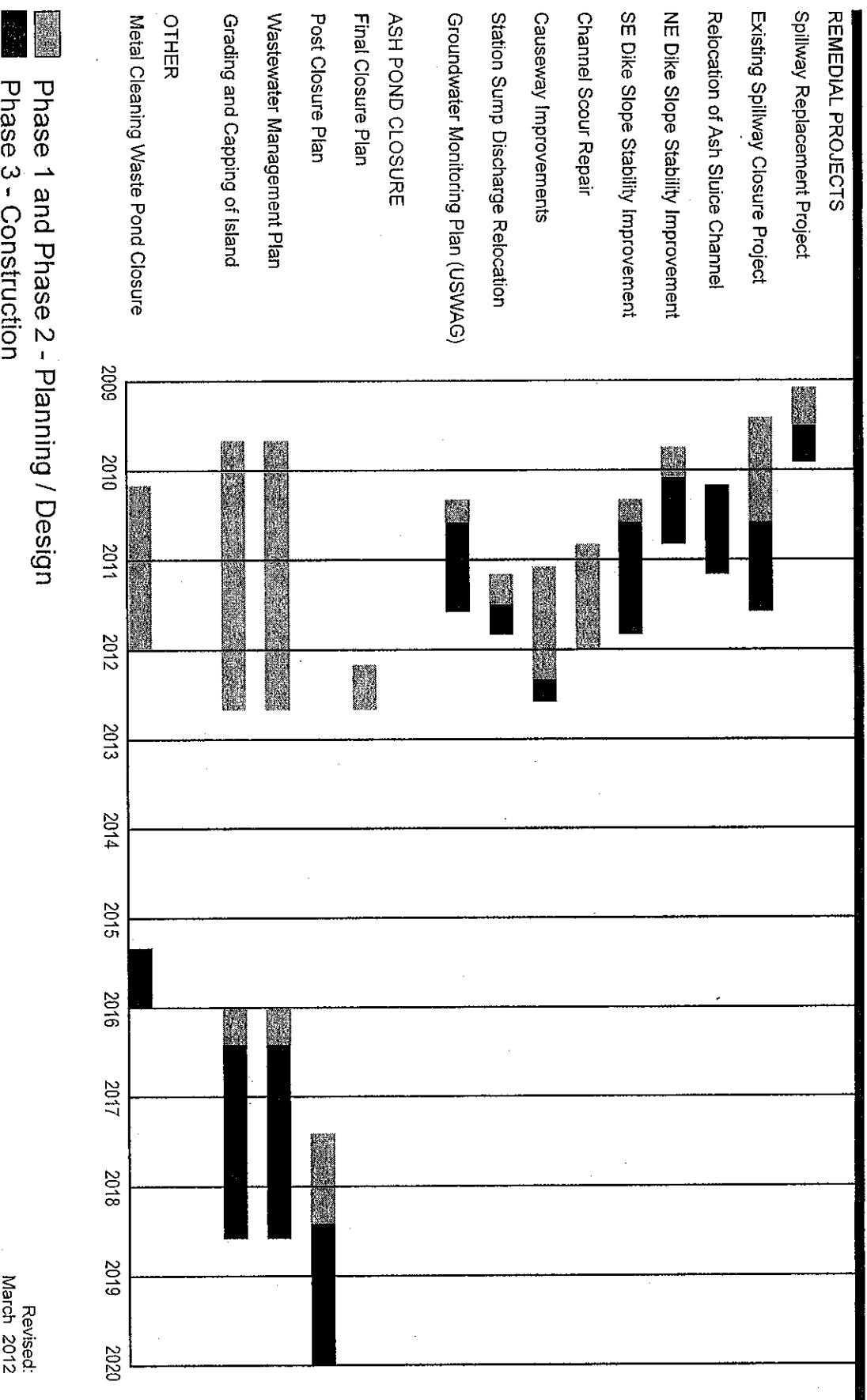
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



# NPDES Closure Schedule – Johnsonville Fossil Plant



**TVA Johnsonville Fossil Plant  
Ash Pond Closure Plan**

**Quarterly Update  
January 1, 2012 - March 31, 2012**

**Ash Disposal Area No. 2:**

**Ash Impoundment Closure**

<b>Description:</b>	TVA recently entered into an Agreed Order with EPA and committed to retiring six JOF units by December 31, 2015, and the four remaining units by December 31, 2017. The ash pond closure will correspond with plant retirement and to meet overall business needs. Closure will involve wastewater management, storm water management, grading, and capping of the island.
<b>Completed this Quarter:</b>	The detailed design scope of services and schedule has been developed by TVA's consultant and it is currently under TVA review. New aerial mapping was developed and will be used in the design.
<b>Projected next Quarter:</b>	Detailed engineering design of the Ash Pond Closure, including geotechnical exploration will begin.
<b>Channel Scour Repair</b>	
<b>Description:</b>	This project consists of relocating and stabilizing the channel that connects Ash Pond B to Ash Pond C. The channel is being relocated to prevent scour on the interior of the dike. Riprap will be placed as a channel lining to prevent future scour of the new channel. The channel is also being designed to accommodate a new pH control system which will be installed during this project. This system will replace the existing sparger system.
<b>Completed this Quarter:</b>	TVA has re-evaluated the method by which the pH is controlled, and determined that it can be effectively managed and compliance with the JOF NPDES permit can be achieved without a new pH control system. Therefore, the capital project has been cancelled. Channel erosion will be treated under the on-going maintenance associated with routine ash-handling at the facility.
<b>Projected next Quarter:</b>	No activities planned -- project has been cancelled.
<b>Causeway Improvements</b>	
<b>Description:</b>	This project consists of increasing the slope stability factors of safety to 1.5 or greater, controlling stormwater, improving truck traffic safety, and improving the roadway driving surface. The slope stability improvements will include buttressing the south slopes with riprap. Stormwater will be controlled by the installation of storm sewer pipes and catch basins. Traffic safety will be improved by widening the existing road in some areas and installing new signage and traffic markings.
<b>Completed this Quarter:</b>	Work continued on the Phase 2 (detailed design).
<b>Projected next Quarter:</b>	Phase 2 design will be completed and Phase 3 construction will begin.

**TVA Johnsonville Fossil Plant  
Ash Pond Closure Plan**

**Quarterly Update  
January 1, 2012 - March 31, 2012**

**Other:**

**DuPont Dredge Cell Cap**

<b>Description:</b>	The DuPont Dredge Cell is located northeast of the Johnsonville Plant. The NPDES permit for Johnsonville accounts for leachate from the DuPont Dredge Cell as an input to Outfall 001. The project includes installation of an enhanced cap of the DuPont Dredge Cell in two phases. This will eliminate seepage of leachate from the existing cap.
<b>Completed this Quarter:</b>	Piezometers were monitored quarterly. Project punch list items were completed (as weather allowed). The construction certification report and post closure plans were developed.
<b>Projected next Quarter:</b>	The remaining punch list items will be addressed. The project will enter its post-closure phase. TVA will submit the closure certification report to TDEC.

**Metal Cleaning Waste Pond Closure**

<b>Description:</b>	The Metal Cleaning Waste Pond will be closed as part of the overall Ash Pond closure area identified in the Ash Pond Closure Plan.
<b>Completed this Quarter:</b>	No activities were performed. The design is complete and construction is currently scheduled for 2015.
<b>Projected next Quarter:</b>	No activities planned.

**List of Revised Attachments**

(To be inserted into Ash Pond Closure Plan)

**Attachment B**

**NPDES Closure Schedule**



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1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

March 15, 2012

Ms. Becky Seaton  
TVA-Johnsonville Fossil  
535 Steam Plant Rd. JOF-1A-NJT  
New Johnsonville, TN 37134

Date Received : 03/07/12 09:00  
Description : Intake / Outfall Monthly  
Sample ID : INTAKE DUP  
Collected By : Karrie Dodson  
Collection Date : 03/06/12 00:00

ESC Sample # : L563579-02

Site ID :

Project # : Intake / Outfall Mon

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Cyanide	BDL	0.0050	mg/l	4500CN-E	03/08/12 1007	561	03/08/12 1539	NJM
Hardness, Total (mg/L as CaCO3)	94.	30.	mg/l	130.1	03/12/12 0853	239	03/12/12 1403	CBD
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	03/13/12 1501	526	03/15/12 0921	JAL
Suspended Solids	7.6	1.0	mg/l	2540D	03/08/12 1056	36	03/08/12 1057	MF
Antimony	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Arsenic	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Cadmium	BDL	0.00050	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Chromium	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Copper	0.0019	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Lead	0.0021	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Nickel	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Selenium	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Silver	BDL	0.00050	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Thallium	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Zinc	BDL	0.010	mg/l	200.8	03/07/12 1208	501	03/08/12 0855	LAT
Aluminum	0.37	0.10	mg/l	200.7	03/07/12 1304	509	03/08/12 2116	WC
Calcium	24.	0.50	mg/l	200.7	03/07/12 1304	509	03/08/12 2116	WC
Iron	0.43	0.10	mg/l	200.7	03/07/12 1304	509	03/08/12 2116	WC
Manganese	0.040	0.010	mg/l	200.7	03/07/12 1304	509	03/08/12 2116	WC

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - 1-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01  
KY - 90010, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

## Notes:

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Est. 1970

# REPORT OF ANALYSIS

March 15, 2012

Ms. Becky Seaton  
TVA-Johnsonville Fossil  
535 Steam Plant Rd. JOF-1A-NJT  
New Johnsonville, TN 37134

Date Received : 03/07/12 09:00  
Description : Intake / Outfall Monthly  
Sample ID : INTAKE  
Collected By : Karrie Dodson  
Collection Date : 03/06/12 00:00

ESC Sample # : L563596-02

Site ID :

Project # : Intake / Outfall Mon

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
pH (On Site)	7.6		su					
Temperature (on-site)	12.8							
Cyanide	BDL	0.0050	mg/l	4500CN-E	03/08/12 1007	561	03/08/12 1543	NJM
Hardness, Total (mg/L as CaCO3)	95.	30.	mg/l	130.1	03/12/12 0853	239	03/12/12 1404	CBD
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	03/13/12 1133	526	03/13/12 1622	CBD
Suspended Solids	7.8	1.0	mg/l	2540D	03/08/12 0806	36	03/08/12 0807	MF
Antimony	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Arsenic	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Cadmium	BDL	0.00050	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Chromium	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Copper	0.0012	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Lead	0.0018	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Nickel	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Selenium	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Silver	BDL	0.00050	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Thallium	BDL	0.0010	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Zinc	BDL	0.010	mg/l	200.8	03/07/12 1208	501	03/08/12 0851	LAT
Aluminum	0.34	0.10	mg/l	200.7	03/07/12 1320	501	03/08/12 2143	JBC
Calcium	24.	0.50	mg/l	200.7	03/07/12 1320	501	03/08/12 2143	JBC
Iron	0.40	0.10	mg/l	200.7	03/07/12 1320	501	03/08/12 2143	JBC
Manganese	0.043	0.010	mg/l	200.7	03/07/12 1320	501	03/08/12 2143	JBC

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01  
KY - 90010, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

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Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

March 20, 2012

Ms. Becky Seaton  
TVA-Johnsonville Fossil  
535 Steam Plant Rd. JOF-1A-NJT  
New Johnsonville, TN 37134

Date Received : March 07, 2012  
Description : Intake / Outfall Monthly  
Sample ID : OUTFALL/INTAKE- HGLL -TRIP BLANK-DUP  
Collected By : Karrie Dodson  
Collection Date : 03/06/12 00:00

ESC Sample # : L563572-02

Site ID :

Project # : Intake / Outfall Mon

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.500	ng/l	1631E	03/16/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L563572-02 (HG1631) - subcontracted to Mercury One Ltd



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Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

March 20, 2012

Ms. Becky Seaton  
TVA-Johnsonville Fossil  
535 Steam Plant Rd. JOF-1A-NJT  
New Johnsonville, TN 37134

Date Received : March 07, 2012  
Description : Intake / Outfall Monthly  
Sample ID : INTAKE- HGLL-DUP  
Collected By : Karrie Dodson  
Collection Date : 03/06/12 00:00

ESC Sample # : L563572-04

Site ID :

Project # : Intake / Outfall Mon

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	2.45	0.500	ng/l	1631E	03/16/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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# REPORT OF ANALYSIS

Ms. Becky Seaton  
TVA-Johnsonville Fossil  
535 Steam Plant Rd. JOF-1A-NJT  
New Johnsonville, TN 37134

March 20, 2012

Date Received : March 07, 2012  
Description : Intake / Outfall Monthly  
Sample ID : INTAKE~ HGLL-FIELD BLANK-DUP  
Collected By : Karrie Dodson  
Collection Date : 03/06/12 00:00

ESC Sample # : L563572-05

Site ID :

Project # : Intake / Outfall Mon

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.500	ng/l	1631E	03/16/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

March 20, 2012

Ms. Becky Seaton  
TVA-Johnsonville Fossil  
535 Steam Plant Rd. JOF-1A-NJT  
New Johnsonville, TN 37134

Date Received : March 07, 2012  
Description : Intake / Outfall Monthly  
Sample ID : OUTFALL/INTAKE- HGLL TRIP BLANK  
Collected By : Karrie Dodson  
Collection Date : 03/06/12 06:21

ESC Sample # : L563585-02

Site ID :

Project # : Intake / Outfall Mon

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.500	ng/l	1631E	03/16/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L563585-02 (HG1631) - subcontracted to Mercury One Ltd



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REPORT OF ANALYSIS

Ms. Becky Seaton  
TVA-Johnsonville Fossil  
535 Steam Plant Rd. JOF-1A-NJT  
New Johnsonville, TN 37134

March 20, 2012

Date Received : March 07, 2012  
Description : Intake / Outfall Monthly  
Sample ID : INTAKE- HGLL  
Collected By : Karrie Dodson  
Collection Date : 03/06/12 06:35

ESC Sample # : L563585-04

Site ID :

Project # : Intake / Outfall Mon

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	2.95	0.500	ng/l	1631E	03/16/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/20/12 14:01 Printed: 03/20/12 14:02

L563585-04 (HG1631) - subcontracted to Mercury One Ltd



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# REPORT OF ANALYSIS

March 20, 2012

Ms. Becky Seaton  
TVA-Johnsonville Fossil  
535 Steam Plant Rd. JOF-1A-NJT  
New Johnsonville, TN 37134

Date Received : March 07, 2012  
Description : Intake / Outfall Monthly  
Sample ID : INTAKE- HGLL-FIELD BLANK  
Collected By : Karrie Dodson  
Collection Date : 03/06/12 06:29

ESC Sample # : L563585-05

Site ID :

Project # : Intake / Outfall Mon

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.500	ng/l	1631E	03/16/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/20/12 14:01 Printed: 03/20/12 14:02

L563585-05 (HG1631) - subcontracted to Mercury One Ltd